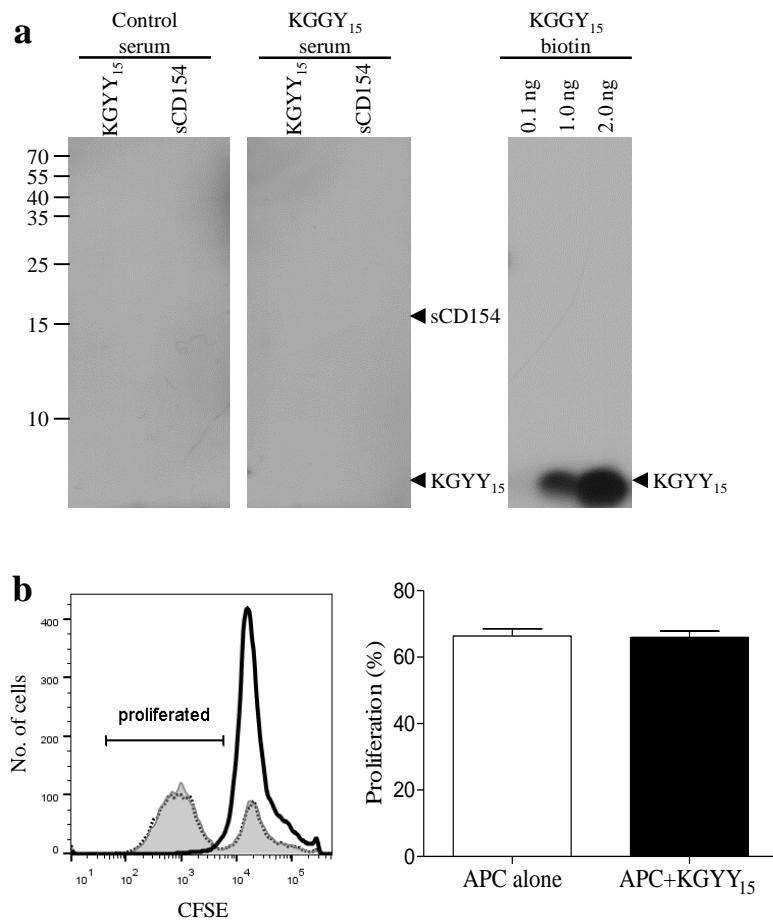


**Figure ESM1.**



**Figure ESM1. KGGY<sub>15</sub> does not elicit an apparent immune response to itself or CD154.** NOD mice were injected weekly for 7 weeks with 1 mg/kg of KGGY<sub>15</sub>. **(a)** Serum was collected from injected or control mice and used, followed by anti-mouse-IgG secondary antibody, in western blots for detection of KGGY<sub>15</sub> peptide or soluble CD154 (sCD154; KGGY<sub>15</sub> and sCD154 sizes are indicated with arrows). An even longer exposure also revealed no bands. As a standard, KGGY<sub>15</sub>-biotin was run and detected with streptavidin-HRP. Experiment was done twice, pooling serum from 2 and 3 mice in each experiment, respectively. **(b)** Sorted splenic APC were loaded with KGGY<sub>15</sub> or not. T cells were CFSE labelled then exposed to APC (+/- KGGY<sub>15</sub>) and incubated for 5 days. Proliferation was assessed by CFSE dilution. Representative histogram of CFSE dilution: Black line – T cells alone; Grey tinted – T cells + APC alone; Dotted line – T cells + APC loaded with KGGY<sub>15</sub>. Graph depicts cumulative data ( $n=5$  in each group).